

WHAT IS CLAIMED IS:

1. A transmission power control method of a forward-acknowledgement channel, comprising the steps of:

5 receiving packet transmission information in a base station; and

determining a power of a transmission signal transmitted via the forward-acknowledgement channel (F-ACKCH) using an increment for a reference transmission  
10 power value of a boost mode in case that the packet transmission control information contains a boost operation.

2. The transmission power control method of claim 1, wherein the increment for the transmission power value  
15 is determined according to a sub-packet identification (SPID) or service data unit length (SDU\_length) transmitted via a reverse-packet data control channel.

3. The transmission power control method of claim 20 1, wherein the power of the transmission signal transmitted via the forward-acknowledgement channel (F-ACKCH) is determined in a manner of adding the increment to the reference transmission power value of the boost mode if the signal is an acknowledgement (ACK).

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4. The transmission power control method of claim

1, wherein the power of the transmission signal transmitted via the forward-acknowledgement channel (F-ACKCH) is determined in a manner of adding the increment to the reference transmission power value of the boost mode if  
5 the signal is a non-acknowledgement (NACK).

5. An acknowledgement control method of a forward-acknowledgement channel, comprising the steps of:

receiving acknowledgement information in a mobile  
10 station;

determining a boost mode threshold using an increment for a boost mode reference threshold in case of a boost mode operation; and

deciding a presence or non-presence of  
15 acknowledgement using the threshold.

6. The acknowledgement control method of claim 5, wherein the increment for the reference threshold is determined according to a sub-packet identification (SPID)  
20 or service data unit length (SDU\_length) transmitted via a reverse-packet data control channel.

7. The acknowledgement control method of claim 5, wherein the increment for the reference threshold is  
25 determined according to a sub-packet identification (SPID) and service data unit length (SDU\_length) transmitted via a

reverse-packet data control channel.